

VARIABLE RATE HIGH-SPEED INPUT AND OUTPUT IN OPTICAL

COMMUNICATION NETWORKS

ABSTRACT OF THE DISCLOSURE

4 In an optical communication network, a variable rate or non-uniform input rate signal is
5 converted to a “pseudo” signal comprising a uniform or standard data rate for the optical
6 communication system. At the receiver, the original non-uniform rate signal is recovered.

7 Non-uniform signals do not have data rates compatible with the standard transmission
8 rate or rates of the transmission system in which they are to be transmitted. In one version, a
9 “pseudo” signal is generated comprising a data transmission frame format including a payload
10 portion comprising a plurality of subpackets comprising data of the original input signal, and
11 stuff bytes, the stuff bytes comprising null data to fill unused parts of the payload portion.